Special Issue

Characterizations of Three-Dimensional Surfaces at Micro/Nanoscale

Message from the Guest Editors

The ability to manufacture products of increasingly lower surface roughness for functionally relevant surfaces is a necessity today. In the modern approach within material science, the characterization of nanometric engineering surfaces based on the application of stereometric, spectral analysis, fractal/multifractal theory, and Minkowsky functionals has remained a challenging task of substantial research. Such a research topic involves a multidisciplinary point of view, including knowledge from diverse scientific areas such as scanning microscopy, metrology, and mathematics.
This Special Issue covers all aspects of 3D surface characterization techniques, ranging from descriptive statistics, stereometric analysis, spectral analysis, fractal/multifractal theory, and Minkowsky functionals. Studies focusing on the theoretical simulation of the micromorphology, computerized procedures, mathematical algorithms, and optimal research techniques for description of 3D surface of materials at micro/nanoscale are also welcome.

Prof. Dr. Ştefan Ţălu
Prof. Dr. Marco Salerno

Guest Editors
Dr. Ştefan Ţălu

Dr. Sławomir Kulesza

Dr. Ilya A. Morozov

Deadline for manuscript submissions
closed (30 April 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/53147

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)